

approx. 4.3V, as shown in Fig. 33. In other words, the lines of magnetic force pass the magnetic sensor element 327 upwardly from its lower side in the state that the detective section 332 locates in the vicinity of the magnet 318, whereas the lines of magnetic force pass the magnetic sensor element 327 downward from its upper side in the state that the detective section 332 locates in the vicinity of the magnet 316. Therefore, as the detective section 332 reciprocates, output signal shown in Fig. 33 is output from the output terminal 329 according to the position of the detective section. This output signal is input to a computer or the like (not shown in the figure) to detect position of the detective section 332.

Specification at page 32, line 27:

Because the magnetic body 311 and the magnetic body 320 are U-shaped, both the one-side arm 311a and the another-side arm 311b can be arranged widthwise in the same plane, and both the one-side arm 320a and the another-side arm 320b also widthwise in the same plane. Therefore, the orientation of the magnetic bodies from the one-side arms to the another-side arms can be arranged generally in parallel to the direction of movement of the object 331 to be detected. Accordingly, the output sensitivity of the non-contact position sensor can be improved since the detective section 332 can be positioned for its movement in the close vicinity of the one-side arms to the another-side arms of the magnetic bodies.

**CLAIMS:**

10. (Amended) The non-contact position sensor according to claim 5, wherein a lateral distance of each said two magnets is generally

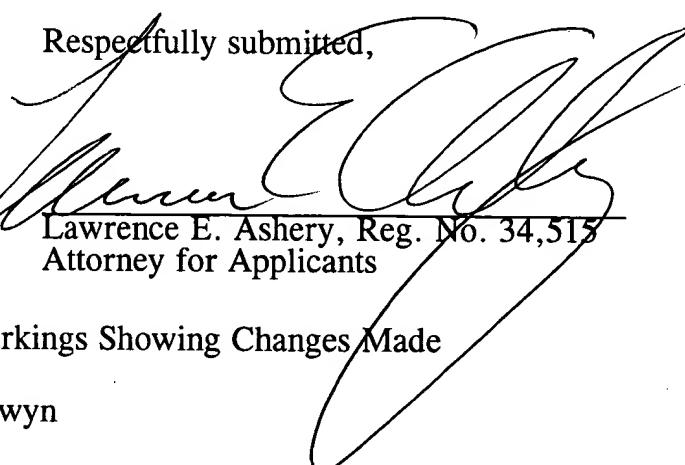
Half  
size

equal to a diameter of said object to be detected.

IN THE DRAWINGS:

Please delete pages "27/28" and "28/28" of the drawings, also labeled as "Reference Numerals" in their entirety.

Respectfully submitted,

  
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LEA/dlm

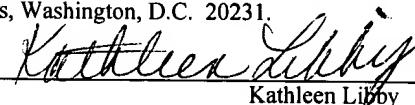
Enclosure: Version With Markings Showing Changes Made

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Kathleen Libby